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### NOTICE OF ALLOWANCE AND FEE(S) DUE

26574 7590 SCHIFF HARDIN, LLP PATENT DEPARTMENT 6600 SEARS TOWER CHICAGO, IL 60606-6473 03/11/2009

03/11/2009

EXAMINER
SITTHERS DOUGLAS JOHN

ART UNIT PAPER NUMBER

2614 DATE MAILED: 03/11/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10808,941
 03/25/2004
 Exhart Fischer
 P04.0090
 6877

TITLE OF INVENTION: METHOD AND APPARATUS FOR IDENTIFYING THE DIRECTION OF INCIDENCE OF AN INCOMING AUDIO SIGNAL

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(8) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 06/11/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| indicated unless correct<br>maintenance fee notifica  | ed below or directed otle<br>tions.  | herwise in Block 1, by (  | a) specifying a new corre  | espondence address   | ; and/o   | r (b) indicating a sepa  | correspondence address a<br>arate "FEE ADDRESS" fo  |
|---|--|---|--|--|---|--|---|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  |  |   |  | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission. |   |  |   |
| SCHIFF HAR<br>PATENT DEPA<br>6600 SEARS TO  | DIN, LLP<br>ARTMENT<br>OWER  | 1/2009  | I h<br>Sta<br>ado<br>tra:  | Cereby certify that these Postal Service of the Mainsmitted to the USF   | rtificatoris Fee(<br>with sur<br>1 Stop<br>TO (57 | e of Mailing or Trans<br>s) Transmittal is being<br>fficient postage for fir<br>ISSUE FEE address<br>I) 273-2885, on the d       | emission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.                                 |
| CHICAGO, IL 6   | 50606-6473   |   |  |  |   |  | (Depositor's name)  |
|   |  |   |  |  |   |  | (Signature)   |
|   |  |   | L  |  |   |  | (Date)  |
| APPLICATION NO.   | FILING DATE  |   | FIRST NAMED INVENTOR   | R  | ATTC  | RNEY DOCKET NO.  | CONFIRMATION NO.  |
| 10/808,941<br>TITLE OF INVENTION  | 03/25/2004<br>I: METHOD AND APPA   | ARATUS FOR IDENTIF  | Eghart Fischer<br>YING THE DIRECTION   | OF INCIDENCE O   | F AN  | P04,0090<br>INCOMING AUDIO S   | 6877<br>SIGNAL  |
| APPLN. TYPE   | SMALL ENTITY   | ISSUE FEE DUE   | PUBLICATION FEE DUE  | PREV. PAID ISSU  | E FEE   | TOTAL FEE(S) DUE   | DATE DUE  |
| nonprovisional  | NO   | \$1510  | \$300  | \$0  |   | \$1810   | 06/11/2009  |
| EXAM  | IINER  | ART UNIT  | CLASS-SUBCLASS   | 1  |   |  |   |
| SUTHERS, DO   | SUTHERS, DOUGLAS JOHN  |   | 381-092000   | _  |   |  |   |
| "Fee Address" ind<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A   | condence address (or Cha<br>B/122) attached.<br>lication (or "Fee Address<br>32 or more recent) attach<br>LND RESIDENCE DAT.<br>less an assignee is ident<br>th in 37 CFR 3.11. Comp | inge of Correspondence "Indication form ned. Use of a Customer  A TO BE PRINTED ON  | (I) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent at listed, no name will be THE PATENT (print or ty data will appear on the pT a substitute for filing ar (B) RESIDENCE: (CIT | ively, the firm (having as a agent) and the nan orneys or agents. If a printed.  The printed patent if an assign assignment.   | a memb<br>nes of u<br>no nan                      | per a 2p to 2  | locument has been filed for   |
| Please check the appropr  | riate assignee category or   | categories (will not be p   | rinted on the patent):   | Individual 🗆 C   | orporat   | ion or other private gro   | oup entity Government   |
| Advance Order -   | No small entity discount p   | permitted)  | b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit cs The Director is hereboverpayment, to Dep  | urd. Form PTO-203i   | 3 is atta   | ached.<br>required fee(s), any de  |   |
|   | is SMALL ENTITY stati  | us. See 37 CFR 1.27.  | b. Applicant is no lo  |  |   |  | FR 1.27(g)(2).<br>the assignee or other party in  |
| interest as shown by the  | records of the United Sta  | ites Patent and Trademark   | k Office.  |  |   | , , , ,  |   |
| Authorized Signature  |  |   |  | Date   |   |  |   |
| Typed or printed name   |  |   | Registration No.   |  |   |  |   |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggest<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | nation is required by 37 C<br>tiality is governed by 35<br>d application form to the<br>ions for reducing this bu<br>Virginia 22313-1450. DO<br>313-1450.                            | CFR 1.311. The information of U.S.C. 122 and 37 CFR to USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR | on is required to obtain or<br>1.14. This collection is e:<br>y depending upon the indi<br>the Chief Information Offic<br>COMPLETED FORMS T  | retain a benefit by<br>stimated to take 12<br>vidual case. Any c<br>er, U.S. Patent and<br>O THIS ADDRES   | the pub<br>minute<br>ommen<br>Trader<br>S. SEN    | lic which is to file (and<br>is to complete, including<br>to on the amount of the<br>mark Office, U.S. Dep<br>D TO: Commissioner | d by the USPTO to process<br>ag gathering, preparing, and<br>me you require to complete<br>artment of Commerce, P.O<br>for Patents, P.O. Box 1450 |

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# UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NO.              | F    | ILING DATE | FIRST NAMED INVENTOR            | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------|------|------------|---------------------------------|---------------------|------------------|
| 10/808,941                   |      | 03/25/2004 | Eghart Fischer                  | P04,0090            | 6877             |
| 26574                        | 7590 | 03/11/2009 |                                 | EXAM                | UNER             |
| SCHIFF HARDIN, LLP           |      |            |                                 | SUTHERS, DO         | UGLAS JOHN       |
| PATENT DEPA                  |      | Г          | ART UNIT                        | PAPER NUMBER        |                  |
| 6600 SEARS TO<br>CHICAGO, IL |      | 73         | 2614<br>DATE MAII ED: 03/11/200 | 9                   |                  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 908 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 908 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

| Application No.    | Applicant(s)    |  |  |  |
|--------------------|-----------------|--|--|--|
| 10/808,941         | FISCHER, EGHART |  |  |  |
| Examiner           | Art Unit        |  |  |  |
| Douglas J. Suthers | 2614            |  |  |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- N This communication is responsive to the response of 12/08/08,
- 2. The allowed claim(s) is/are 1-27.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - i) ☑ All b) ☐ Some\* c) ☐ None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date \_\_\_\_\_
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date \_\_\_\_
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other \_\_\_\_\_.

/Vivian Chin/

Supervisory Patent Examiner, Art Unit 2614

djs

Application/Control Number: 10/808,941

Art Unit: 2614

# REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

None of the closest prior art, such as Nakazawa (US 6069961), expressly teaches or reasonably suggests determining the direction of incidence of an incoming audio signal using phase shifted microphone signals combined with respective weightings in a manner as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas J. Suthers whose telephone number is (571)272-0563. The examiner can normally be reached on Monday-Friday 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2614

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Douglas J Suthers/ Examiner, Art Unit 2614

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2614